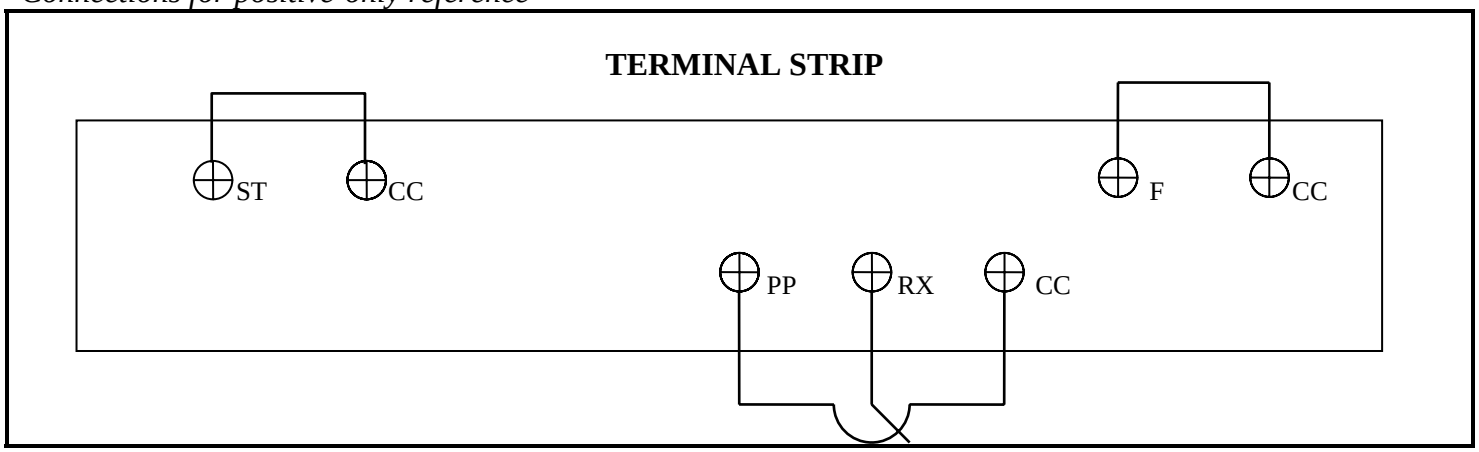
TOSHIBA G3 APPLICATION GUIDELINE 21.5
Direction Change with RX Input (page 1 of 2)

Introduction

Like all speed references on the G3, the RX input has an adjustable bias and gain. The RX is unique, however, in that its inputs can be positive or negative and the corresponding speeds can be positive or negative. The first example shown below will allow a motor direction change based on a positive-only speed reference (a speed pot). The second example will illustrate how to program the drive to accept an input that reverses polarity. If you do not have a motor connected, use monitor to verify direction change. Set SWITCH 1 (right of the phone jack on the control board under the keypad) to '5' or '10' as appropriate for the voltage you are applying to the RX terminal. The I/V switch does not apply to the RX terminal.

Connections for positive-only reference



Example programming for positive-only reference

Group	Parameter	New Value
UTILITY PARAMETERS	Blind Function Selection	1
UTILITY PARAMETERS	Frequency Setting Parameters Blind	1
FREQUENCY SETTING PARAMETERS	Frequency Priority Selection #1	3
FREQUENCY SETTING PARAMETERS	RX Terminal Standard or Adjustable	1
FREQUENCY SETTING PARAMETERS	RX Reference Setting Point #1	0 (default)
FREQUENCY SETTING PARAMETERS	RX Point #1 Frequency	60
FREQUENCY SETTING PARAMETERS	RX Reference Setting Point #2	100 (default)
FREQUENCY SETTING PARAMETERS	RX Point #2 Frequency	-60

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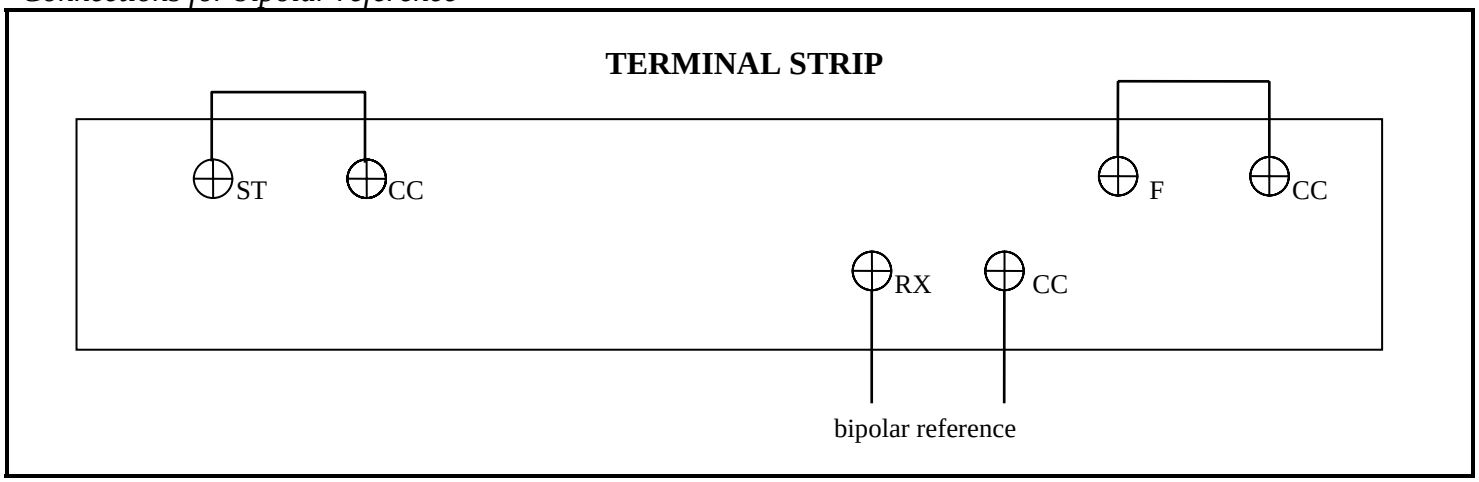
Connections for bipolar reference



Example programming for bipolar reference

Group	Parameter	New Value
UTILITY PARAMETERS	Blind Function Selection	1
UTILITY PARAMETERS	Frequency Setting Parameters Blind	1
FREQUENCY SETTING PARAMETERS	Frequency Priority Selection #1	3
FREQUENCY SETTING PARAMETERS	RX Terminal Standard or Adjustable	1
FREQUENCY SETTING PARAMETERS	RX Reference Setting Point #1	-100 (default)
FREQUENCY SETTING PARAMETERS	RX Point #1 Frequency	-60
FREQUENCY SETTING PARAMETERS	RX Reference Setting Point #2	100 (default)
FREQUENCY SETTING PARAMETERS	RX Point #2 Frequency	60

NOTE: Never connect the 'CC' terminal to ground.